Author index to volume 99

Abell, J.S., see Y.J. Bi 99 (1991) 159
Abu-Aljarayesh, I., see A.S. Saleh 99 (1991) 152
Al-Jaber, R., see A.S. Saleh 99 (1991) 152
Andrews, A.B., see D.q. Li 99 (1991) 85
Arsenieva, A.D., A.B. Granovsky, G.M. Myalikguliev, A.V. Pechennikov, A.Ph. Prokoshin, S.I. Stadnik, R.P. Vasilieva and A.V. Vedyayev, The extraordinary Nernst–Ettingshausen effect in amorphous ferromagnetic alloys 99 (1991) 167
Arsenieva, A.D., see A.V. Vedyayev 99 (1991) 190
Ayoub, N.Y., Dependence of the susceptibility on low magnetic fields for the electron-doped superconductors $Ln_{2-x}M_xCuO_{4-y}$ (Ln = Nd, Pr, Sm; M = Ce, Th) 99 (1991) 239

Bara, J.J., B.F. Bogacz and A.T. Pędziwiatr, Mössbauer effect study of $(Er_{1-x}Pr_x)_2Fe_{14}B$ system 99 (1991) 204
Bedell, K.S., see L.E. De Long 99 (1991) 171
Berkov, D.V., Micromagnetics of the single cylindrical particle (*Letter to the Editor*) 99 (1991) L7
Bi, Y.J., J.S. Abell and A.M.H. Hwang, Defects in Terfenol-D crystals 99 (1991) 159
Bieber, A., and F. Gautier, Phase stability and short range order in magnetic transition metal alloys. I. Electronic structure and interplay between chemical and magnetic cluster interactions 99 (1991) 293
Bogacz, B.F., see J.J. Bara 99 (1991) 204
Böttger, Ch., R. Stasch, A. Wulfes and J. Hesse, Magnetic field dependences of the characteristic temperatures in the reentrant spin glasses $(Fe_{0.65}Ni_{0.35})_{1-x}Mn_x$ 99 (1991) 280

Calderon, F., see O. Popov 99 (1991) 119
Celinski, Z. and B. Heinrich, Exchange coupling in Fe/Cu, Pd, Ag, Au/Fe trilayers (*Letter to the Editor*) 99 (1991) L25
Coehoorn, R., First principles band structure calculations for rare earth–transition metal compounds: magnetization, hyperfine parameters and magnetocrystalline anisotropy (*Topical review: E.P. Wohlfarth lecture*) 99 (1991) 55
Coey, J.M.D., see D.P.F. Hurley 99 (1991) 229

Da Cunha, S.F., see L.C. Sampaio 99 (1991) 145
De Long, L.E., J.G. Huber and K.S. Bedell, Criteria for the occurrence of ferromagnetism and weak magnetic order in narrow-band metals 99 (1991) 171
Dimashko, Yu.A., see D.A. Yablonskii 99 (1991) 261
Dobrzyński, L., see K. Szymański 99 (1991) 222
Dohnomae, H., see H. Yamamoto 99 (1991) 243
Dowben, P.A., see D.q. Li 99 (1991) 85

Erskine, J.L., see D.q. Li 99 (1991) 85

Felcher, G.P., see Y.Y. Huang 99 (1991) L31
Freeman, A.J., see S.C. Hong 99 (1991) L45
Freeman, A.J., see R.q. Wu 99 (1991) 71
Freeman, A.J., see R.q. Wu 99 (1991) 81

García, N. and A. Hernando, Theory for coupling ferromagnets through paramagnetic layers: direct exchange coupling plus a magnetic pump mechanism (*Letter to the Editor*) 99 (1991) L12
García, N. and A. Hernando, Free electron polarization in a ferro–paramagnet thin bilayer (*Letter to the Editor*) 99 (1991) L20
Gautier, F., see A. Bieber 99 (1991) 293
Granovsky, A.B., see A.D. Arsenieva 99 (1991) 167
Granovsky, A.B., see A.V. Vedyayev 99 (1991) 190
Guo, H.-q., X.-d. Ma, L.-y. Yang, B.-g. Shen and J.-g. Zhao, Structure, magnetic properties and stability of the interfaces in Fe/Cu multilayer 99 (1991) 199
Gutierrez, C.J., M.D. Wieczorek, H. Tang, Z.Q. Qiu and J.C. Walker, Mössbauer studies of Fe(100)/Ag(100) multilayers grown on NaCl(100) by molecular beam epitaxy 99 (1991) 215

Heinrich, B., see Z. Celinski 99 (1991) L25
Hernando, A., see N. García 99 (1991) L12
Hernando, A., see N. García 99 (1991) L20
Hesse, J., see Ch. Böttger 99 (1991) 280
Hong, S.C., J.I. Lee and A.J. Freeman, Proximity effects of overlayers on surface magnetism: Al adsorbed on Fe(001) (*Letter to the Editor*) 99 (1991) L45

Huang, Y.Y., G.P. Felcher and S.S.P. Parkin, Antiferromagnetic and ferromagnetic order in Co/Ru multilayers (*Letter to the Editor*) 99 (1991) L31
Huber, J.G., see L.E. De Long 99 (1991) 171
Hurley, D.P.F. and J.M.D. Coey, Structural and magnetic properties of the rare-earth iron nitride solution series $Y_2(Fe_{1-x}Co_x)_{17}N_{3-\delta}$ 99 (1991) 229
Hutchings, C.W., see D.q. Li 99 (1991) 85
Hwang, A.M.H., see Y.J. Bi 99 (1991) 159
Hwang, C., see D.q. Li 99 (1991) 85

Ivanov, M.A., V.M. Loktev and Yu.G. Pogorelov, On a theory of relaxation of spin excitations in magnets with long range impurity states 99 (1991) 323
Ivanov, V., see L. Vinokurova 99 (1991) 193
Iwata, N., M. Nishikawa and T. Shigeoka, Molecular field calculations of the magnetization process in CeBi 99 (1991) 209

Johnson, M.T., see P.J. van der Zaag 99 (1991) L1
Jotania, R.B., see J. Nogués 99 (1991) 275
Joubert, J.C., see S. Ram 99 (1991) 133

Kulkarni, R.G., see J. Nogués 99 (1991) 275

Łątka, K., see J.P. Sanchez 99 (1991) 95
Latuszkiewicz, J., see K. Szymański 99 (1991) 222
Leccabue, F., see O. Popov 99 (1991) 119
Lee, J.I., see S.C. Hong 99 (1991) L45
Lee, K.M., see M.J. O'Shea 99 (1991) 103
Li, C., see R.q. Wu 99 (1991) 71
Li, D.q., C.W. Hutchings, P.A. Dowben, C. Hwang, R.-T. Wu, M. Onellion, A.B. Andrews and J.L. Erskine, Angle-resolved photoemission evidence for a Gd(0001) surface state 99 (1991) 85
Loktev, V.M., see M.A. Ivanov 99 (1991) 323

Ma, X.-d., see H.-q. Guo 99 (1991) 199
Mahmood, S., see A.S. Saleh 99 (1991) 152
Malkawi, A., see A.S. Saleh 99 (1991) 152
Mikhov, M., see O. Popov 99 (1991) 119
Myalikguliev, G.M., see A.D. Arsenieva 99 (1991) 167

Nishikawa, M., see N. Iwata 99 (1991) 209
Nogués, J., T. Puig, R.B. Jotania, R.V. Upadhyay, R.G. Kulkarni and K.V. Rao, Magnetic properties of Zn-substituted Co–Ge–Fe–O ferrites near the dilution limit 99 (1991) 275
Noordermeer, A., see P.J. van der Zaag 99 (1991) L1

Okuyama, T., see H. Yamamoto 99 (1991) 243
Onellion, M., see D.q. Li 99 (1991) 85
Onyszkiewicz, Z. and A. Wierzbicki, Spatial distribution of Gaussian fluctuations of the molecular field in Ising ultra-thin films 99 (1991) 253
O'Shea, M.J. and K.M. Lee, Anisotropy and double (reentrant) transitions in rare-earth–transition metal alloys 99 (1991) 103

Pankhurst, Q.A., see R.J. Pollard 99 (1991) L39
Parkin, S.S.P., see Y.Y. Huang 99 (1991) L31
Pechennikov, A.V., see A.D. Arsenieva 99 (1991) 167
Pędziwiatr, A.T., see J.J. Bara 99 (1991) 204
Pogorelov, Yu.G., see M.A. Ivanov 99 (1991) 323
Pollard, R.J. and Q.A. Pankhurst, Ferrimagnetism in fine feroxyhite particles (*Letter to the Editor*) 99 (1991) L39
Popov, O., P. Rachev, M. Mikhov, F. Calderon, J.L.Sanchez Ll. and F. Leccabue, Experimental study of the Hopkinson effect in fine $BaFe_{12}O_{19}$ particles 99 (1991) 119
Por, P.T., see P.J. van der Zaag 99 (1991) L1
Prokoshin, A.Ph., see A.D. Arsenieva 99 (1991) 167
Puig, T., see J. Nogués 99 (1991) 275

Qiu, Z.Q., see C.J. Gutierrez 99 (1991) 215

Rachev, P., see O. Popov 99 (1991) 119
Ram, S. and J.C. Joubert, Synthesis and magnetic properties of $SrZn_2$–W type hexagonal ferrites using a partial $2Zn^{2+} \rightarrow Li^+Fe^{3+}$ substitution: a new series of permanent magnets materials 99 (1991) 133
Rao, K.V., see J. Nogués 99 (1991) 275
Rekveldt, M.Th., see P.J. van der Zaag 99 (1991) L1
Roman, A., The influence of the skin effect on the impedance for multidomain wall model 99 (1991) 91
Roy, S.B. and G.R. Stewart, Magnetic properties of $GdBe_{13}$: effects of U substitutions 99 (1991) 235

Saleh, A.S., R. Al-Jaber, A. Malkawi, S. Mahmood and I. Abu-Aljarayesh, Structural and magnetic studies of the alloy system $CuAl_{1-x}Fe_x$ 99 (1991) 152
Sampaio, L.C. and S.F. da Cunha, Magnetic properties of the pseudo-binary intermetallic compounds: $Hf(Fe_{1-x}Al_x)_2$ 99 (1991) 145
Sanchez, J.P., K. Tomala and K. Łątka, Magnetic properties of $RIrSi_3$ (R = Gd, Dy) from Mössbauer spectroscopy and magnetization measurements 99 (1991) 95
Sanchez Ll., J.L., see O. Popov 99 (1991) 119
Satuła, D., see K. Szymański 99 (1991) 222
Shatskii, P.P., see D.A. Yablonskii 99 (1991) 261
Shen, B.-g., see H.-q. Guo 99 (1991) 199
Shigeoka, T., see N. Iwata 99 (1991) 209

Shinjo, T., see H. Yamamoto 99 (1991) 243
Stadnik, S.I., see A.D. Arsenieva 99 (1991) 167
Stasch, R., see Ch. Böttger 99 (1991) 280
Stewart, G.R., see S.B. Roy 99 (1991) 235
Szymański, K., D. Satuła, L. Dobrzyński and J. Latuszkiewicz, Hyperfine interactions in amorphous $Co_{70-x}Ni_xFe_5Si_{15}B_{10}$ studied by the Mössbauer technique 99 (1991) 222
Szytuła, A., see L. Vinokurova 99 (1991) 193

Tang, H., see C.J. Gutierrez 99 (1991) 215
Tomala, K., see J.P. Sanchez 99 (1991) 95

Upadhyay, R.V., see J. Nogués 99 (1991) 275

Van der Zaag, P.J., M.T. Johnson, A. Noordermeer, P.T. Por and M.Th. Rekveldt, Relation between grain size and domain size in MnZn ferrite studied by neutron depolarisation (*Letter to the Editor*) 99 (1991) L1
Vasilieva, R.P., see A.D. Arsenieva 99 (1991) 167
Vedyayev, A.V., see A.D. Arsenieva 99 (1991) 167
Vedyayev, A.V., A.B. Granovsky and A.D. Arsenieva, Extraordinary Hall Effect (EHE) in amorphous transition-metal ferromagnets 99 (1991) 190
Vinokurova, L., V. Ivanov and A. Szytuła, High-field magnetization in RCo_2X_2 compounds 99 (1991) 193
Völz, H., Limits and future possibilities of information storage (*Review paper*) 99 (1991) 335

Walker, J.C., see C.J. Gutierrez 99 (1991) 215
Wieczorek, M.D., see C.J. Gutierrez 99 (1991) 215
Wierzbicki, A., see Z. Onyszkiewicz 99 (1991) 253
Wu, R.q., C. Li and A.J. Freeman, Structural, electronic and magnetic properties of Co/Pd(111) and Co/Pt(111) 99 (1991) 71
Wu, R.q. and A.J. Freeman, Theoretical determination of antiferromagnetic coupling and surface state for Gd(0001) 99 (1991) 81
Wu, R.-T., see D.q. Li 99 (1991) 85
Wulfes, A., see Ch. Böttger 99 (1991) 280

Yablonskii, D.A., Yu.A. Dimashko and P.P. Shatskii,Nonuniform exchange interaction effect on the structure of ferromagnet domain boundary 99 (1991) 261
Yakinthos, J.K., Crystal magnetic structures of $TmFe_2Si_2$ and $TmNi_2Ge_2$ compounds. Influence of the d-metal charge on the anisotropy direction of the RT_2X_2 (R = rare earth, T = 3d or 4d metal and X = Si, Ge) compounds 99 (1991) 123
Yamamoto, H., T. Okuyama, H. Dohnomae and T. Shinjo, Magnetoresistance of multilayers with two magnetic components 99 (1991) 243
Yang, L.-y., see H.-q. Guo 99 (1991) 199

Zhao, J.-g., see H.-q. Guo 99 (1991) 199

Subject index to volume 99

Actinides 99 (1991) 95, 235
Amorphous systems
– alloys 99 (1991) 222
– ferromagnets 99 (1991) 167, 190
– RE compounds 99 (1991) 103
Anisotropy
– direction 99 (1991) 123
– magnetic 99 (1991) 71, 204
– magnetocrystalline 99 (1991) 55, 133, 229
– RE compounds 99 (1991) 103
– rhombic 99 (1991) 261
– surface 99 (1991) 215
Anisotropy fields 99 (1991) 222
Antiferromagnetic coupling 99 (1991) 20, 81
Antiferromagnetism 99 (1991) 235

Band structure 99 (1991) 55, 85

Coercivity 99 (1991) 103, 133
Correlations 99 (1991) 171
Crystal field
– effects 99 (1991) 95
Crystal growth 99 (1991) 159
Crystal structure 99 (1991) 123, 199
Curie temperature
– composition-dependent 99 (1991) 103, 145, 253

Defects 99 (1991) 159
Domain
– boundary 99 (1991) 261
– size 99 (1991) 1
– wall model 99 (1991) 91
– wall pinning 99 (1991) 145

Electrical resistivity 99 (1991) 91
Electron diffraction
– high-energy 99 (1991) 215
Electronic structure 99 (1991) 293
Exchange
– coupling 99 (1991) 12, 25

Ferrimagnetism 99 (1991) 39, 275
Ferrites 99 (1991) 1, 133, 275
Ferromagnetic
– resonance 99 (1991) 25
Ferromagnets 99 (1991) 12, 20, 261, 323
– amorphous 99 (1991) 190
Fine particles 99 (1991) 39, 119
First principles band structure 99 (1991) 55
Frustration 99 (1991) 235

Grain-size distribution 99 (1991) 1

Hall effect
– extraordinary 99 (1991) 167, 190
Heavy fermions 99 (1991) 171, 235
Hexaferrites 99 (1991) 119, 133
Hopkinson effect 99 (1991) 119
Hyperfine fields 99 (1991) 45
Hyperfine interactions 99 (1991) 204, 222
Hyperfine parameters 99 (1991) 55
Hysteresis loop 99 (1991) 243

Impurity states
– long-range 99 (1991) 323
Information storage
– basic elements 99 (1991) 335
– magneto-optical storage 99 (1991) 71
– trend analysis 99 (1991) 335
Interaction effects
– cluster 99 (1991) 293
– exchange 99 (1991) 261
– long-range 99 (1991) 209
– spin–orbit 99 (1991) 190
Interfacial phenomena
– structure 99 (1991) 199
Ising model 99 (1991) 253
Isomer shifts 99 (1991) 55

Magnetic moments 99 (1991) 45, 55, 71
Magnetic phase diagram 99 (1991) 145, 193, 209, 261, 280

Magnetic pump mechanism 99 (1991) 12
Magnetic structures 99 (1991) 123
Magnetization
– calculations 99 (1991) 55
– field-dependent 99 (1991) 152, 235
– high-field 99 (1991) 193
– processes 99 (1991) 7, 209, 243
– saturation 99 (1991) 91, 133, 145, 229
– specific 99 (1991) 167
– spontaneous 99 (1991) 280
– temperature-dependent 99 (1991) 95, 119, 275
– time-dependent 99 (1991) 103, 253
Magnetoresistance
– multilayers 99 (1991) 243
Magnetostriction 99 (1991) 159
Micromagnetics 99 (1991) 7
Microstructure 99 (1991) 133, 159
Molecular-beam epitaxy 99 (1991) 215
Molecular-field theory 99 (1991) 209, 253
Mössbauer spectroscopy
– amorphous alloys 99 (1991) 222
– ferrites 99 (1991) 275
– fine particles 99 (1991) 39
– multilayers 99 (1991) 215
– permanent magnets 99 (1991) 204
– rare-earth compounds 99 (1991) 95
Multilayers 99 (1991) 20, 25, 31, 71, 199, 215, 243

Nernst–Ettingshausen effect 99 (1991) 167
Neutron depolarization 99 (1991) 1
Neutron diffraction 99 (1991) 123

Order
– antiferromagnetic 99 (1991) 31, 95
– ferromagnetic 99 (1991) 31
– short-range 99 (1991) 293
– weak magnetic 99 (1991) 171
Overlayers 99 (1991) 45

Paramagnetic layers 99 (1991) 12
Particles
– fine ferromagnetic 99 (1991) 39, 119
– magnetization 99 (1991) 7
Pauli paramagnets 99 (1991) 193
Permanent magnets 99 (1991) 55, 119, 133, 204
Phase stability 99 (1991) 293
Phase transitions
– double (re-entrant) 99 (1991) 103
– ferromagnetic–spin glass 99 (1991) 280
Photoemission 99 (1991) 85
Polarization
– free electron 99 (1991) 20
Proximity effects 99 (1991) 45

Rare earth
– intermetallic nitrides 99 (1991) 229
– ternary silicides 99 (1991) 95
Rare earth–transition metal compounds 99 (1991) 55, 123, 159, 193, 204, 239
– amorphous 99 (1991) 103
Relaxation 99 (1991) 323
RHEED 99 (1991) 25

Skin effect 99 (1991) 91
Specific heat
– electronic 99 (1991) 171
Spin excitations 99 (1991) 323
Spin glass 99 (1991) 280
Spin polarization 99 (1991) 71
Spin reorientation 99 (1991) 204
Superconductivity
– high-T_c 99 (1991) 239
Surface magnetism 99 (1991) 45
Surface magneto-optical Kerr effect 99 (1991) 25
Surface phenomena 99 (1991) 81, 85
Susceptibility
– ac 99 (1991) 275
– low-field 99 (1991) 239
– temperature-dependent 99 (1991) 95, 152, 193, 235

Terfenol 99 (1991) 159
Thermal activation 99 (1991) 119
Thin films 99 (1991) 20, 81, 85
– ferromagnetic 99 (1991) 261
– ultra- 99 (1991) 25, 215, 253
Torque 99 (1991) 103
Transition metal
– alloys 99 (1991) 152, 222, 280, 293
– ferromagnets 99 (1991) 190
Transmission electron microscopy 99 (1991) 159

Weak ferromagnetism 99 (1991) 171

X-ray diffraction 99 (1991) 152, 199, 229, 243